

Checking images

```
Command Prompt
C:\Users\Asus>docker images
REPOSITORY          TAG          IMAGE ID      CREATED      SIZE
alpine/git          latest      c99c7d810bc1  3 weeks ago  25.1MB
docker/getting-started latest      3ba8f2ff0727  8 weeks ago  27.9MB
C:\Users\Asus>
```

Pulling image ubuntu 16.04

```
C:\Users\Asus>docker images
REPOSITORY          TAG          IMAGE ID      CREATED      SIZE
alpine/git          latest      c99c7d810bc1  3 weeks ago  25.1MB
docker/getting-started latest      3ba8f2ff0727  8 weeks ago  27.9MB

C:\Users\Asus>docker pull ubuntu:16.04
16.04: Pulling from library/ubuntu
92473f7ef455: Pull complete
fb52bde70123: Pull complete
64788f86be3f: Pull complete
33f6d5f2e001: Pull complete
Digest: sha256:eed7e1076bbc1f342c4474c718e5438af4784f59a4e88ad687dbb98483b59ee4
Status: Downloaded newer image for ubuntu:16.04
docker.io/library/ubuntu:16.04
C:\Users\Asus>
```

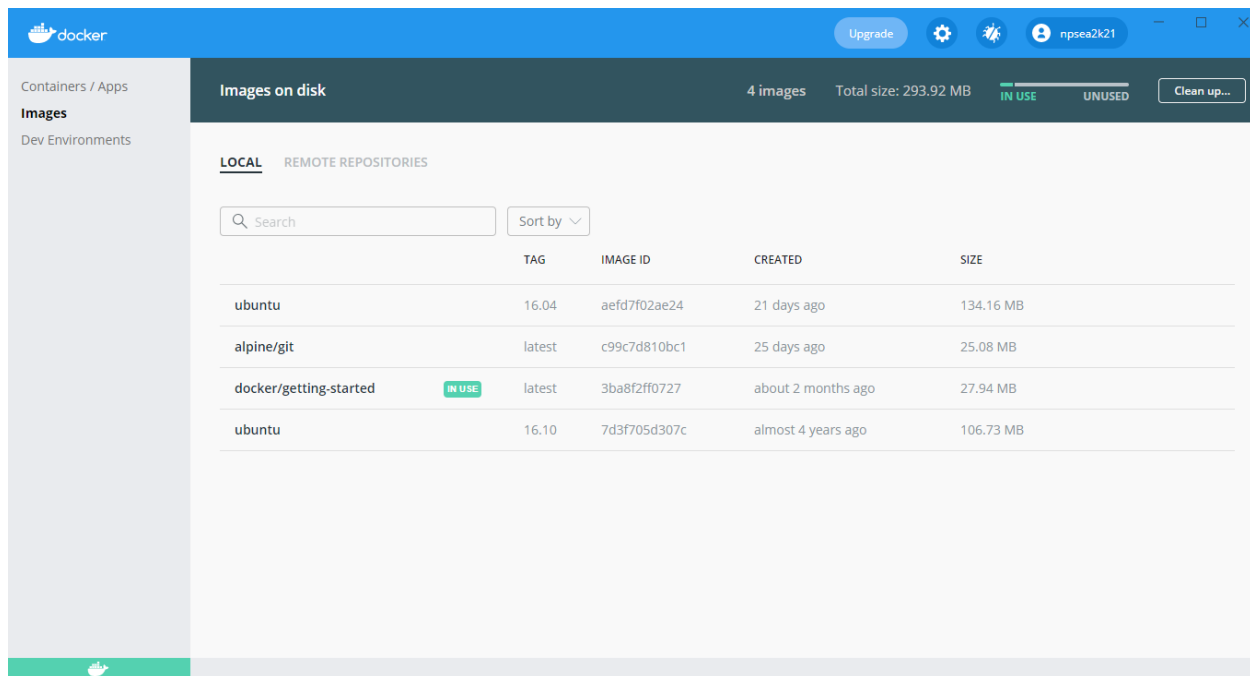
3. Pull different version of image

```
C:\Users\Asus>docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
alpine/git           latest              c99c7d810bc1       3 weeks ago        25.1MB
docker/getting-started latest              3ba8f2ff0727       8 weeks ago        27.9MB

C:\Users\Asus>docker pull ubuntu:16.04
16.04: Pulling from library/ubuntu
92473f7ef455: Pull complete
fb52bde70123: Pull complete
64788f86be3f: Pull complete
33f6d5f2e001: Pull complete
Digest: sha256:eed7e1076bbc1f342c4474c718e5438af4784f59a4e88ad687dbb98483b59ee4
Status: Downloaded newer image for ubuntu:16.04
docker.io/library/ubuntu:16.04

C:\Users\Asus>docker pull ubuntu:16.10
16.10: Pulling from library/ubuntu
dca7be20e546: Pull complete
40bca54f5968: Pull complete
61464f23390e: Pull complete
d99f0bcd5dc8: Pull complete
120db6f90955: Pull complete
Digest: sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Status: Downloaded newer image for ubuntu:16.10
docker.io/library/ubuntu:16.10

C:\Users\Asus>
```



Running docker images again

```
C:\Users\Asus>docker images
REPOSITORY          TAG             IMAGE ID        CREATED         SIZE
ubuntu              16.04          aefd7f02ae24   3 weeks ago    134MB
alpine/git          latest         c99c7d810bc1   3 weeks ago    25.1MB
docker/getting-started latest         3ba8f2ff0727   8 weeks ago    27.9MB
ubuntu              16.10          7d3f705d307c   3 years ago    107MB

C:\Users\Asus>
```

Using docker search

```
C:\Users\Asus>docker search ubuntu
```

NAME	DESCRIPTION	STARS	OFFICIAL	AUTOMATED
ubuntu	Ubuntu is a Debian-based Linux operating sys...	12240	[OK]	
dorowu/ubuntu-desktop-lxde-vnc	Docker image to provide HTML5 VNC interface ...	531		[OK]
websphere-liberty	WebSphere Liberty multi-architecture images ...	270	[OK]	
rastasheep/ubuntu-ssh	Dockerized SSH service, built on top of offi...	251		[OK]
consol/ubuntu-xfce-vnc	Ubuntu container with "headless" VNC session...	240		[OK]
ubuntu-upstart	Upstart is an event-based replacement for th...	110	[OK]	
landinternet/ubuntu-16-nginx-php-phpmyadmin-mysql-5	ubuntu-16-nginx-php-phpmyadmin-mysql-5	50		[OK]
open-liberty	Open Liberty multi-architecture images based...	45	[OK]	
ubuntu-debootstrap	debootstrap --variant=minbase --components=m...	44	[OK]	
i386/ubuntu	Ubuntu is a Debian-based Linux operating sys...	25		
solita/ubuntu-systemd	Ubuntu + systemd	24		[OK]
nuagebec/ubuntu	Simple always updated Ubuntu docker images w...	24		[OK]
landinternet/ubuntu-16-apache-php-5.6	ubuntu-16-apache-php-5.6	14		[OK]
landinternet/ubuntu-16-apache-php-7.0	ubuntu-16-apache-php-7.0	13		[OK]
landinternet/ubuntu-16-nginx-php-phpmyadmin-mariadb-10	ubuntu-16-nginx-php-phpmyadmin-mariadb-10	11		[OK]
landinternet/ubuntu-16-nginx-php-5.6-wordpress-4	ubuntu-16-nginx-php-5.6-wordpress-4	9		[OK]
landinternet/ubuntu-16-nginx-php-5.6	ubuntu-16-nginx-php-5.6	8		[OK]
landinternet/ubuntu-16-apache-php-7.1	ubuntu-16-apache-php-7.1	7		[OK]
landinternet/ubuntu-16-nginx-php-7.0	ubuntu-16-nginx-php-7.0	4		[OK]
pivotaldata/ubuntu	A quick freshening-up of the base Ubuntu doc...	4		
pivotaldata/ubuntu16.04-build	Ubuntu 16.04 image for GPDB compilation	2		
smartentry/ubuntu	ubuntu with smartentry	1		[OK]
landinternet/ubuntu-16-php-7.1	ubuntu-16-php-7.1	1		[OK]
pivotaldata/ubuntu-gpdb-dev	Ubuntu images for GPDB development	1		
landinternet/ubuntu-16-ssh	ubuntu-16-ssh	1		[OK]

Removing Ubuntu:16.10

```
C:\Users\Asus>docker rmi 7d3f705d307c
Untagged: ubuntu:16.10
Untagged: ubuntu@sha256:8dc9652808dc091400d7d598
Deleted: sha256:7d3f705d307c7c225398e04d4c4f8512
Deleted: sha256:d9db289b9342d9617596cd6ee3bba988
Deleted: sha256:a87725e8597b97f2399bc3aa50b0e2ee
Deleted: sha256:38cf10a2801529348366953e9b933d35
Deleted: sha256:61172966249d43026dbd017eec3a9575
Deleted: sha256:57145c01eb80040fdd0a24cde20af478
```

Running Ubuntu:16.04 "Hello World!"

```
C:\Users\Asus>docker run ubuntu:16.04 /bin/echo
'Hello world!'
```

Checking containers

```
C:\Users\Asus>docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS              PORTS                               NAMES
f986cc6ac210   ubuntu:16.04   "/bin/echo 'Hello wo..." 2 minutes ago   Exited (0) About a minute ago    0.0.0.0:80->80/tcp, :::80->80/tcp   affectionate_chandrasekhar
79b973457fac   docker/getting-started "/docker-entrypoint..." 21 minutes ago   Up 21 minutes
```

Still exits almost immediately

```
C:\Users\Asus>docker run ubuntu:16.04 /bin/bash

C:\Users\Asus>docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS              PORTS                               NAMES
7f57b40ff23a   ubuntu:16.04   "/bin/bash"             23 seconds ago   Exited (0) 15 seconds ago         0.0.0.0:80->80/tcp, :::80->80/tcp   bold_ritchie
f986cc6ac210   ubuntu:16.04   "/bin/echo 'Hello wo..." 4 minutes ago   Exited (0) 4 minutes ago         0.0.0.0:80->80/tcp, :::80->80/tcp   lucid_tu
79b973457fac   docker/getting-started "/docker-entrypoint..." 24 minutes ago   Up 24 minutes
```

Adding -it flag to run command interactively

```
C:\Users\Asus>docker run -it ubuntu:16.04 /bin/bash
root@6f18134022a8:/# pwd
/
root@6f18134022a8:/# ls
bin boot dev etc home lib lib64 media mnt opt proc root run sbin srv sys tmp usr var
root@6f18134022a8:/# exit
exit
C:\Users\Asus>
```

Detached mode

```
C:\Users\Asus>docker run -d ubuntu:16.04 /bin/sleep 3600
54a232ca8ff17bfe711a136fb8dd47cd12f8dc608ba64c325e8de430e32acf4f

C:\Users\Asus>docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS              PORTS                               NAMES
54a232ca8ff1   ubuntu:16.04   "/bin/sleep 3600"       11 seconds ago   Up 8 seconds         0.0.0.0:80->80/tcp, :::80->80/tcp   ecstatic_goldstine
79b973457fac   docker/getting-started "/docker-entrypoint..." 31 minutes ago   Up 31 minutes
```

Reattaching container

```
C:\Users\Asus>docker run -d ubuntu:16.04 /bin/sleep 3600
54a232ca8ff17bfe711a136fb8dd47cd12f8dc608ba64c325e8de430e32acf4f

C:\Users\Asus>docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS              PORTS                               NAMES
54a232ca8ff1   ubuntu:16.04   "/bin/sleep 3600"       31 minutes ago   Up 31 minutes         0.0.0.0:80->80/tcp, :::80->80/tcp   ecstatic_goldstine
79b973457fac   docker/getting-started "/docker-entrypoint..." 31 minutes ago   Up 31 minutes

C:\Users\Asus>docker exec -it 54a /bin/bash
root@54a232ca8ff1:/# ps aux
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root         1  0.0  0.0  4372  748 ?        Ss   06:20   0:00 /bin/sleep 3600
root         7  0.0  0.0  18236 3384 pts/0    Ss   06:24   0:00 /bin/bash
root        18  0.0  0.0  34420 2872 pts/0    R+   06:24   0:00 ps aux
root@54a232ca8ff1:/# exit
exit

C:\Users\Asus>docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS              PORTS                               NAMES
54a232ca8ff1   ubuntu:16.04   "/bin/sleep 3600"       5 minutes ago   Up 5 minutes         0.0.0.0:80->80/tcp, :::80->80/tcp   ecstatic_goldstine
79b973457fac   docker/getting-started "/docker-entrypoint..." 37 minutes ago   Up 37 minutes
```

Stopping the container

```
C:\Users\Asus>docker stop 54a
54a

C:\Users\Asus>docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS              PORTS                               NAMES
54a232ca8ff1   ubuntu:16.04   "/bin/sleep 3600"       7 minutes ago   Exited (137) 15 seconds ago         0.0.0.0:80->80/tcp, :::80->80/tcp   ecstatic_goldstine
```

Removing Containers